

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Sukhendu K. Majumdar

GENERAL INFORMATION:

Name:	Wilco Refining, LLC.
Address:	P.O. Box 473 Albany, KY 42063
Date application received:	8/26/2006
SIC Code/SIC description:	2911, Petroleum Crude Oil Refining
Source ID:	21-053-00012
Agency Interest:	4298
Activity:	APE20060001
Permit:	F-06-062

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM ₁₀	0.0/0.0	1.9/0.86
SO ₂	0.0	6.5
NO _x	0.0	20.24
CO	0.0	3.7
VOC	0.0	78.24
Single HAPs<10ton Xylene	NA	2.9
Source wide HAPs< 25 tons	NA	9.11

SOURCE DESCRIPTION:

Wilco Refining, LLC at Albany, KY is a petroleum refinery facility (SIC code 2911) which will be processing crude oil from the drilling wells in Kentucky, owned by the company. Crude oil processing capacity has been listed as of 2,520 barrels per day. Presently the facility is not operating. The Division for Air Quality issued an initial conditional major operating permit to the facility on May 17, 2002. Wilco Refining is now planning to start operating the refinery in 2007 and has applied for renewal of the operating permit (F-02-007).

Facility equipment consists of several combustion units burning natural gas, storage tanks, a loading rack, a sulfur removal operation, pipeline components and a flare. Limit has been taken so that the potential to emit (as defined in 401 KAR 52:001, Section 1 (56)) of any non-hazardous regulated air pollutant is less than 90 tons per year, any single Hazardous Air Pollutant (HAP) is less than 9 tons per year, and the combination of HAPs is less than 22.5 tons per year. The source will be a minor source for HAPs and not subject to NESHAP (40 CFR 63, Subparts R, CC and UUU) requirements.

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

Pursuant to permit F-02-007, issued on May 17, 2002, the permittee shall not exceed the following maximum processing/production rates:

- (a) Crude Oil 45,990,000 gallons per year
- (b) Gasoline 13,245,120 gallons per year
- (c) Diesel 17,476,200 gallons per year
- (d) Kerosene 2,759,400 gallons per year

In addition, to preclude the applicability of 401 KAR 52:020 Title V permit and 40 CFR Part 63 Subpart CC, "National Emission Standards for Hazardous Emissions from Petroleum Refineries", total annual source-wide emissions shall not exceed the following specific limitations on a twelve (12) consecutive month basis:

- (1) Volatile organic compound (VOC) emissions shall not equal or exceed 90 tons per twelve (12) consecutive month period;
- (2) Emissions of any single hazardous air pollutants (HAP) shall not exceed 9 tons per twelve (12) consecutive month period; and
- (3) Emissions of combined hazardous air pollutant (HAPs) shall not exceed 22.5 tons per twelve (12) consecutive month period.

COMMENTS:

The loading rack at the source shall be equipped with a Vapor Recovery System (VRU) with 99 % efficiency to control VOC and HAP emissions. The VRU shall be operational all the time during loading of gasoline and other distillates to meet VOC emission limit of 90 tons per year.

OPERATIONAL FLEXIBILITY:

None